



# Acquisition Directorate

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## Patrol Boats Program

### Fast Response Cutter (FRC)

SENTINEL Class Patrol Boat

**Industry One-on-One  
Market Research**

Mr. Carl McGill / CAPT Doug Subocz / Mr. Ian Grunther | Oct 2011



# Agenda

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- **Ground Rules**
- **Government Presentation**
  - **Overview of the current FRC acquisition**
    - **Phase 1 Production status**
    - **Baseline for major systems and design parameters**
  - **Description of Reprocurement and Data License Package (RDLP) contained in Section C.16 of the original Request for Proposal**
  - **Status of reprocurement and industry engagement points**
  - **Overview of acquisition strategy for reprocurement**
- **Discussion Topics**



# Ground Rules for One-on-One Exchange

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- No handouts will be provided
- No recording devices (video, camera, audio) are permitted during exchange
- All industry participants will be presented the same materials
- Focus of this engagement is to hear industry's ideas on the planned acquisition strategy
- Two-way dialogue periods will be held after each major subject brief
  - Encourage questions/comments based on information presented
  - All questions/comments recorded by project team (for CG use only)
  - Coast Guard team questions to industry (opportunity for CG to obtain better insight on industry capabilities)
- Coast Guard team will answer all queries to the best of their ability without providing opinions
- Comments, questions & answers will not be shared w/ other offerors



# Note on Coast Guard Remarks

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The remarks today of Coast Guard officials involved in the FRC program are not a guarantee of the Coast Guard's course of action in proceeding with the FRC procurement. The information we share today represents current Coast Guard FRC program status and will change based on internal and external circumstances. The formal solicitation, when and if issued, is the only document that should be relied upon in determining the Coast Guard's official requirements.



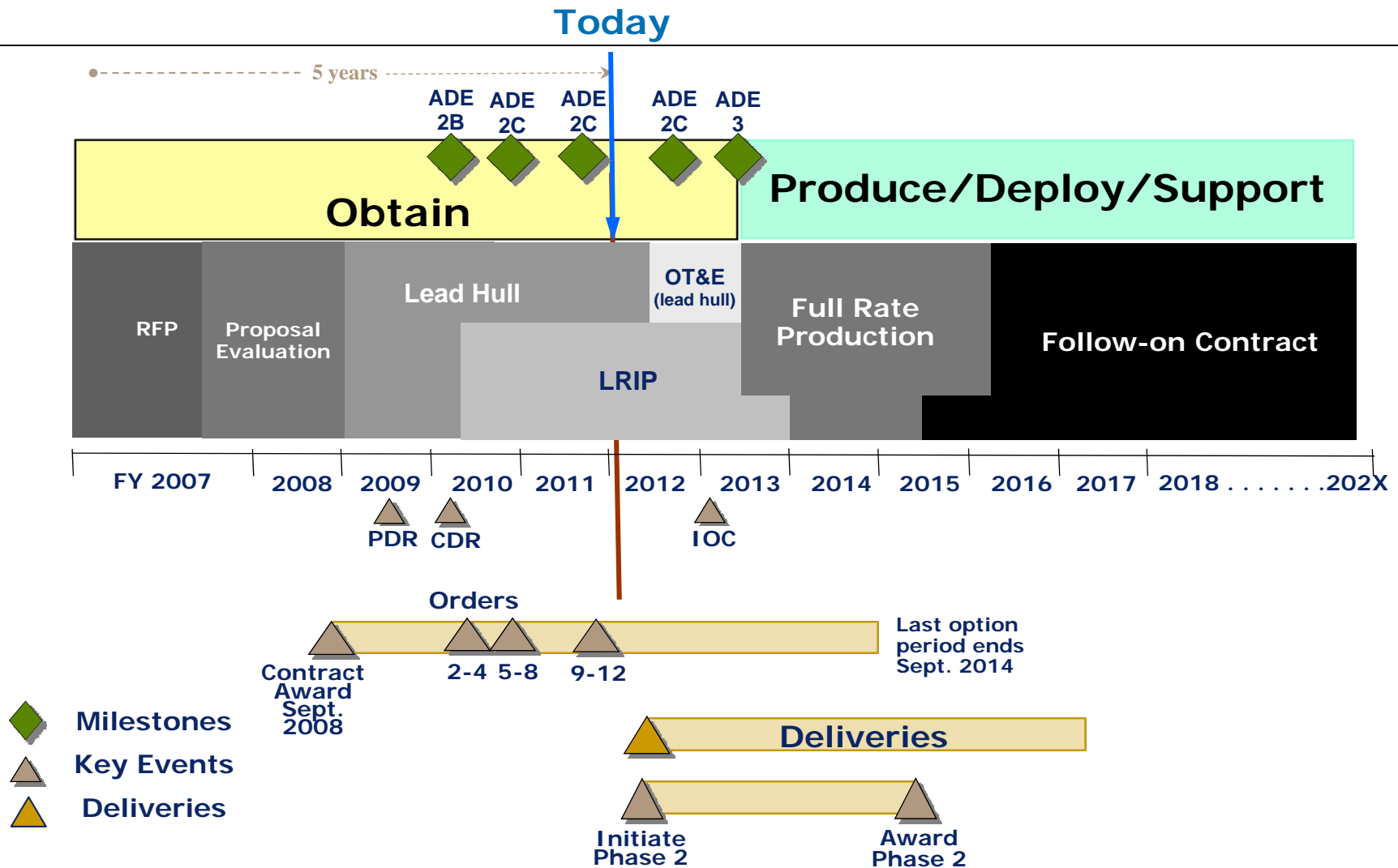
# Overview FRC acquisition

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During Phase I, the Government awarded a contract in September 2008, to Bollinger Shipyards Incorporated for design and construction of the lead ship and options for up to 33 additional hulls. The Critical Design Review was held in November 2010 and production is underway. To date the Government has ordered a total of 12 cutters.



# Phase 1 Production Status

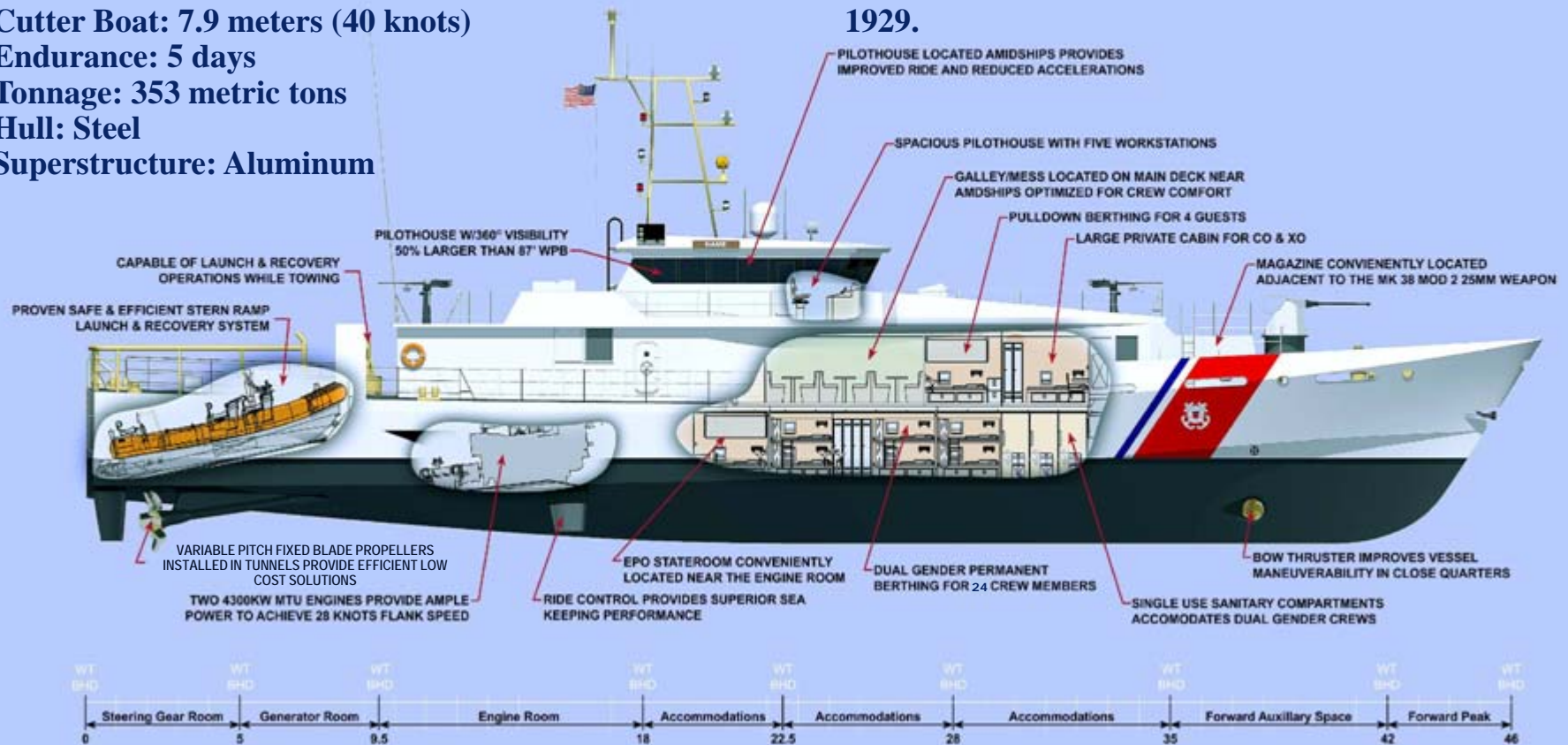


# FRC Design Overview

**Length:** 153.5 feet  
**Draft:** 9.5 feet  
**Flank Speed:** 28 knots  
**Crew:** 24  
**Stern Launch Cutter Boat**  
**Cutter Boat:** 7.9 meters (40 knots)  
**Endurance:** 5 days  
**Tonnage:** 353 metric tons  
**Hull:** Steel  
**Superstructure:** Aluminum

**Parent Craft:** Damen Stan Patrol 4708

**Damen:** Internationally recognized ship designer. More than 30 shipyards/related companies worldwide. Four thousand Damen vessels in service since founded in 1929.



# Major Systems Baseline

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- **100 – Structure**
  - **Damen Stan Patrol 4708**
  - **Steel hull/main deck and Aluminum super structure**
- **200 – Propulsion**
  - **MTU-DD (Tognum America, Inc) Single System Integrator (SSI)**
  - **Propulsion plant configuration:**
    - **2 MTU 20V4000M93L MDEs**
    - **MCMS**
    - **ZF Reduction Gears**
    - **Schaffran Propellers**





# Major Systems Baseline

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- **300 – Electrical System**
  - Easy Gen Power Controls
  - SSDG: Cummins QSM11-DM
  - EDG: Cummins 6BTA5.9-D(M)
- **400 – C4ISR**
  - Comms
  - Sensors
  - L3 Symphony: communications management
  - C2 System: SEAWATCH software (GFI) / hardware (CFE)



# Major Systems Baseline

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- **500 – Auxiliary System**
  - **HVAC: Novenco**
  - **Reverse Osmosis Units: 2 Village Marine Model 20700 (440 gpd)**
  - **Bow Thruster: Schottel STT60FP**
  - **Stabilizers: Quantum QC-1500**
  - **Anchor: Fortress FX-125**
  - **Stern Launch & Recovery System**
  - **Cutter Boat: NAIAD 7.9m HJ274**



# Major Systems Baseline

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- **600 – Outfit and Furnishings**
  - All outfit and furnishings are CFE
  - Cathodic Protection: Cathelco
  - Refrigerator / Freezer: Cospolich
- **700 – Armament**
  - 360° coverage
  - MK38 Mod 2 (GFE)
  - 4, .50 cal machine guns (GFE)



# Design Parameters

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## **Differences between RFP and features in current design:**

- **Defined factor of safety for structure**
- **Added two Ensigns to crew. Change was accommodated by converting guest racks to permanent racks.**
- **No loiter drive**
- **Bow thruster inherited from parent craft**



# RDLP Overview

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**Reprocurement Data means recorded information, regardless of form or media, to include technical data and computer software (to include but not limited to any codes and algorithms necessary for design or production) which directly or indirectly supports and/or is produced or specifically used in the design and construction of the FRC-B.**

**License is defined as agreement between the Contractor and the Government wherein the Contractor grants the Government the right to use the aforementioned data in accordance with the terms of the agreement.**



# **RDLP Overview**

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**The RDLP consists of six CDRLs:**

- **TDP-001: Product drawings**
- **TDP-002: Special inspection equipment drawings**
- **TDP-003: Special tooling drawings**
- **TDP-004: Specification**
- **TDP-005: Software**
- **TDP-006: Test requirements documents**

**See RFP: Section C.16 and CDRLs for specifics.**



# Reprocurement Status

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**The Government is in the Market Research stage of Phase II of the FRC acquisition. The Government intends to engage industry at the following points of Phase II:**

- **Pre-RFP development, one-on-one meetings with industry to inform the Government's reprocurement strategy**
- **Comment on draft technical baseline**
- **FRC ship check**
- **Comment on draft RFP**
- **Industry Day**



# FRC Reprourement Strategy

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**The Government is considering the following reprourement strategy for Phase II of the FRC acquisition, which will complete the fleet by acquisition of 58 hulls.**

**The strategy involves the use of the Reprourement and Data License Package (RDLP) contained in Section C.16 of the original Request for Proposal.**





# RDLP Reprourement Strategy

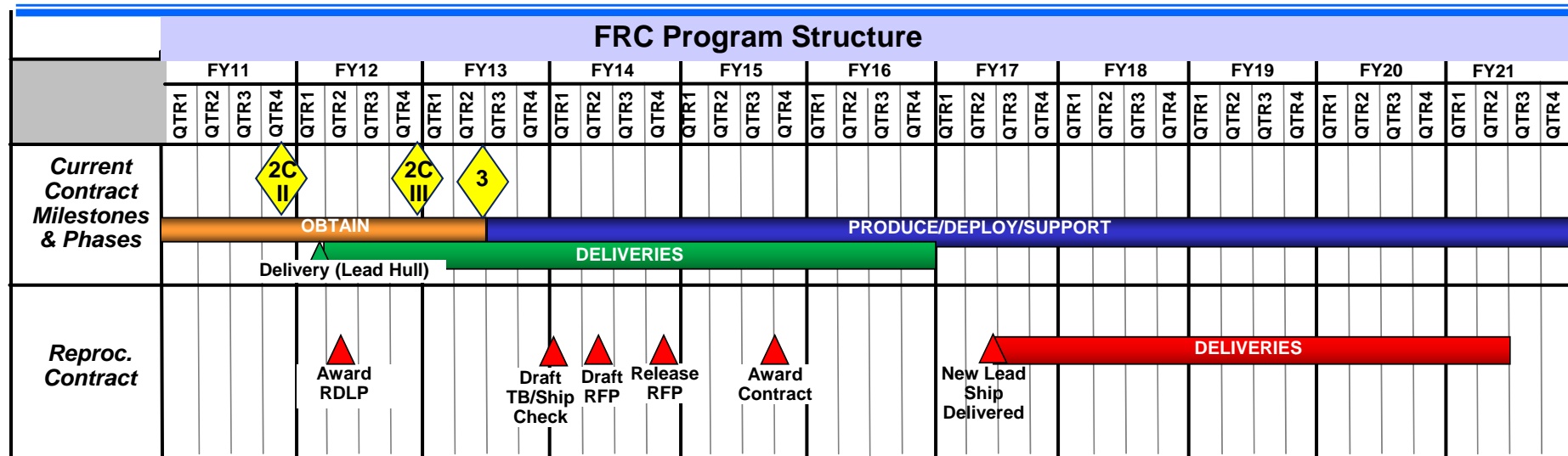
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**By using the RDLP for the reprourement:**

- **Benefits:**
  - **The same product/configuration baseline as the cutters built under the current contract**
  - **Reduces lifecycle cost by reducing non-recurring engineering and the need for duplicative infrastructure to support two baselines (e.g., training, spares, manpower)**
  - **Shorter time period from contract award to delivery of cutters as a result of providing the design**
  - **Increased competition**



# RDLP Reprocurement Strategy Notional Schedule



- Expectations:**

- Government receives funding for RDLP option in FY12
- Government receives funding for reprocurement contract award in FY15

# Discussion Topics

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# RDLP Reprourement Strategy

- **Based on the continuum of information that the government could provide from the RDLP, what information from the RDLP would you want to see in the RFP and why?**
  - **How does this help you perform?**
  - **What are the impacts if we don't provide it (risk to the government)?**
- **What is the minimum amount of RDLP information you would need to bid on this reprourement?**
- **How much time would you require for production engineering from contract award before you are ready to start construction?**
- **How much time would you need to deliver a lead hull?**
- **What would be your preferred delivery schedule (number of cutters/year)?**
- **What would be an economical ordering quantity?**
- **What are some potential opportunities for cost/schedule savings?**



# Wrap-up

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**Thank you for participating in our market research one-on-one sessions.**

**You are welcome to follow-up with written material. The cut-off for providing this material is November 14, 2011. Please send all written email to Mr. Carl McGill at [Carl.E.McGill@uscg.mil](mailto:Carl.E.McGill@uscg.mil) with information copies to Ms. Margaret Costa at [Margaret.J.Costa@uscg.mil](mailto:Margaret.J.Costa@uscg.mil) and Ms. Kelley Cox at [Kelley.A.Cox@uscg.mil](mailto:Kelley.A.Cox@uscg.mil).**

